

PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lorin R. DeBonte et al. Art Unit: 1649
Serial No.: 08/572,027 Examiner: G. Benzion
Filed : 12/14/95
Title : PLANTS HAVING MUTANT SEQUENCES THAT CONFER ALTERED
FATTY ACID PROFILES

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Assistant Commissioner for Patents
Washington, DC 20231

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GROUP 1800

RESPONSE AFTER FINAL PURSUANT TO 37 C.F.R. §1.116

In response to the Examiner's action mailed July 7,
1998, please amend the application as follows:

In the Claims

1. (Three Times Amended) An isolated nucleic acid fragment comprising a sequence of at least about 20 nucleotides from a *Brassicaceae* or *Helianthus* delta-12 fatty acid desaturase gene having at least one mutation in a region of said desaturase gene encoding a His-Xaa-Xaa-Xaa-His amino acid motif, wherein said at least one mutation [is effective for altering the fatty acid composition in *Brassicaceae* or *Helianthus* seeds] renders the product of said desaturase gene non-functional and wherein said sequence includes said at least one mutation.

6. (Twice Amended) The nucleic acid fragment of claim 5, wherein the wild-type sequence of said motif comprises the [wild-type amino acid] sequence His-Glu-Cys-Gly-His.

7. (Twice Amended) The nucleic acid fragment of claim 6, wherein said at least one mutation in said motif

Date of Deposit

September 25, 1998

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Date September 25, 1998

To Examiner Gary Benzion
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Assistant Commissioner for Patents
Washington, DC 20231

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From Ronald C. Lundquist, Ph.D.
Reg. No. 37,875

Re Applicant: Lorin R. DeBonte et al.
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9/25/98

Number of pages
including this page 12

Message: Attached please find the following:

1. Response After Final Pursuant to 37 C.F.R. §1.116.

Date of Deposit September 25, 1998
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Julie Erickson
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